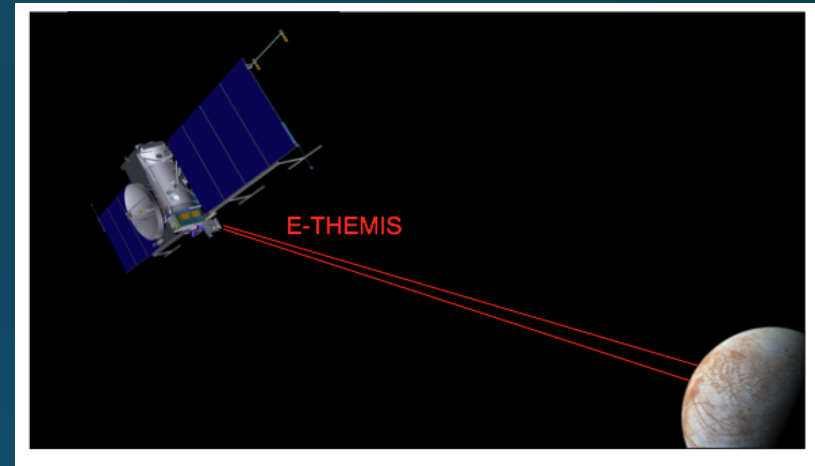


# Responsive Onboard Science for Europa Clipper

Kiri L. Wagstaff, Ashley Davies, Gary Doran, Srija Chakraborty, Saadat Anwar, Diana L. Blaney, Steve A. Chien, Philip R. Christensen, and Serina Diniega

- **Goals:**
  - **Detect** and **prioritize** Europa thermal/spectral anomalies (e.g., warm spots, organics, plume deposits)
  - Enable **cross-instrument** coordination
    - E.g., E-THEMIS thermal anomalies can inform MISE data prioritization
- **Benefits**
  - Maximize use of limited downlink
  - Maximize utility of limited time (flybys)
  - Minimize missed detections
    - We can't predict in advance when/where interesting features will occur; must respond in situ

Early detection of thermal anomalies



Responsive MISE data prioritization

